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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/619,769
Filing Date	July 15, 2003
First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25209A

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	AUTHORIZATION TO CHARGE THE FEE AND ANY ADDITIONAL FEES AS NECESSARY OR CREDIT ANY OVERPAYMENT TO DEPOSIT ACCOUNT 23-0455 IS HEREBY GIVEN.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Claude F. Purchase, Jr.
Signature	<i>Claude F. Purchase, Jr.</i>
Date	March 25, 2004

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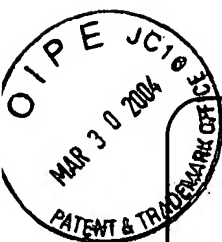
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Signature	<i>Nancy Dernbach</i>
Date	3-25-04

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 19

Complete if Known

Application Number	10/619,769
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Attorney Docket Number	PC25209A

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5,082,838	01/21/1992	Naka, et al	
		US- 5,817,819	10/06/1998	Furuya, et al	
		US- 5,948,780	09/07/1999	Peterson Jr., et al	
		US- 6,008,243	12/28/1999	Bender, et al	
		US- 5,747,486	05/05/1998	Sohda, et al	
		US- 5,403,843	04/04/1995	Akimoto, et al	
		US- 5,284,661	02/08/1994	Morimoto, et al	
		US- 5,521,181	05/28/1996	Meyer, et al	
		US- 6,166,019	12/26/2000	Meyer, et al	
		US- 5,334,596	08/02/1994	Hartman, et al	
		US- 4,835,157	05/30/1989	Press, et al	
		US- 5,792,767	08/11/1998	Meyer, et al	
		US- 5,378,704	01/03/1995	Weller III	
		US- 3,296,070	01/03/1967	Topliss, et al	
		US- 2002-0156061	10/24/2002	Barvian, et al	
		US- 2003-0004172	01/02/2003	Harter, et al	
		US- 2002-019377	02/14/2002	Jenkins, et al	
		US- 2002-0151558	10/17/2002	Andrianjara, et al	
		US- 2002-0156069	10/24/2002	Picard, et al	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 95/35296	12/28/1995	Takatani, et al		
		WO 99/09485	02/24/2000	McClure, et al		
		WO 02/34726	05/02/2001	Noe, et al		
		WO 01/12611	02/22/2001	Blagg		
		WO 02/34753	05/02/2002	Bronk, et al		
		WO 01/05389	01/25/2001	Stallings, et a		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **2** of **19****Complete if Known**

Application Number	10/619,769
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First Named Inventor	William Howard Roark
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25209A

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		Number-Kind Code ² (if known)			
		US- 2002-0151555	10/17/2002	Barvian, et al	
		US- 2002-0161000	10/31/2002	Barvian, et al	
		US-			
		US-			
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 99/05148	02/04/1999	Collins, et al		
		WO 03/049738	06/19/2003	Weithmann, et al		
		WO 02/064568	08/22/2002	Barvian, et al		
		WO 02/064571	08/22/2002	Barvian, et al		
		WO 01/63244 A1	08/30/2001	Chen, et al		
		WO 97/07119	02/27/1997	Furuya, et al		

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FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	MM-DD-YYYY			
		EP 0 443 568 A1	08/28/1991	Morimoto, et al		
		EP 0 443 568 B1	06/12/1996	Morimoto, et al		
		EP 0 492 316 A1	07/01/1992	Akimoto, et al		
		EP 0 502 725 A2	09/09/1992	de Laszlo		
		EP 0 530 537 A1	03/10/1993	Akimoto, et al		
		EP 0 416 740 A2	03/13/1991	Smith, et al		

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Sheet	11	of	19
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Sheet	12	of	19	Attorney Docket Number	PC25209A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Montana, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors", Current Opinion in Drug Discovery & Development, 2000; 3(4); pp 353-261	
		Clark, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinion in Drug Discovery & Development, 2000; 2(1); pp 16-25	
		Chen, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, 122; pp 9648-9654	
		Derwent Abstract 96-068630/07, "New fused imidazole cpds. - possess inhibitory activity of adhesion molecule expression (Eng.)"	
		Derwent Abstract 93-168431/21, "New Thiazolo-pyrimidine disone derivs. for treating arteriosclerosis"	
		Derwent Abstract 91-001547/01, "New sulphur-Contg. fused pyrimidine cpds. - are endothelin and interleukin inhibitors for treatment and prevention of myocardial infarction, auto:immune diseases,etc.",	
		Derwent Abstract, 93271 E/44, "Cyclised pro-form of 5-fluoro-uracil derivs. - are orally administered antitumour agents without side effects of parent"	
		Kaul, et al, "2-14C-1-Allyl-3,5-diethyl-6-chlorouracil II: Isolation and Structures of the Major Sulfur-Free and Three Minor Sulfur-Containing Metabolites and Mechanism of Biotransformation", Journal of Pharmaceutical Sciences, Vol. 71, No. 8, August 1982; pp 897-900	
		Kaul, et al, "Structure of a novel sulphur-containing metabolite of Acluracil (1-allyl1-3,5-diethyl-6-chlorouracil)", Xenobiotica, 1982, Vol. 12, No. 8; pp 495-498	
		Kaul, et al, "Identifizierung eines dritten S-haltigen Metaboliten von 1-Allyl-3,4-diethyl-6-chloruracil und Bildungsmechanismus der SCH - Metaboliten", Arzneim.-Forsch./Drug Res., 982; 32(I)(6); pp 610-612	

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Sheet	13	of	19	Attorney Docket Number	PC25209A

NON PATENT LITERATURE DOCUMENTS

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		Brown, et al, "The Synthesis of Some 1-Substituted Cytosine and Uracil Derivatives", J. Chem. Soc., 1972; pp 2385-2391	
		Pecorari, et al, "Synthesis and Biological activity of Pyrimido [2,1-b] [1,3] Thiazine, [1,3]Thiazino[3,2-a]Purine and [1,2,3]Triazolo[4,5-d][1,3]Thiazino [3,2-a]Pyrimidine Derivatives and thiazole Analogues (*)", IL Farmaco, 46 (7,8), 1991; pp 899-911	
		De Melo, et al, "5-fluoro (3H) pyrimidine-4-ones; syntehse, reactivite et proprietes pharmacologiques", Ann. Pharmaceutiques francaises, 1992, 50, n1; pp 39-51	
		Faskhutdinow, et al, Kim. Farm. Zh. 1988; 22(5); pp 557	
		Tozkoparan, et al, "Condensed Heterocyclic Compounds: Synthesis and Antiinflammatory Activity of Novel Thiazolo[3,2-a]pyrimidines", Arch. Pharm. Pharm. Med. Chem. 331 (Weinheim, Germany): 1998; pp 201-206	
		Chem. Abstr. 1992; 117; pp 143023e	
		Chem. Abstr. 1988; 109; pp 162901r	
		Boger, et al, "Identification of a novel class of small-molecule antiangiogenic agents through the screening of combinatorial libraries which function by inhibiting the binding and localization of proteinase MMP2 to integrin. alpha. V. beta 3", Journal of the American Chemical Society 2001; 123: pp 1280-1288	
		Silletti, et al, "Disruption of matrix metalloproteinase 2 binding to integrin alpha v beta 3 by an organic molecule inhibits angiogenesis and tumor growth in vivo", Proceeding of the National Academy of Sciences of the United States of America, 2001; 98(1); pp 119-124	
		Milton, et al, "Biaryl acids: novel non-nucleoside inhibitors of HIV reverse transcriptase types 1 and 2", Bioorganic & Medicinal Chemistry Letters, Oxford, GB 1998; 8: pp 2623-2628	

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Sheet	14	of	19			

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		Hirota, et al, "Synthesis of 6-Substituted Thieno[2,3-d]pyrimidine-2,4(1H,3H)-diones", J. Heterocycl. Chem., Vol 12, 1974; pp 717-721	
		Rajappa, et al, "Synthesis of Thiophenes: Part III* - Further Variations in the Substitution Pattern", Indian J. Chem., Vol 12, 1974; pp 1-3	
		HCAPLUS Abstract 1998: 542760; "Preparation of bicyclic-substituted hexahydrobenz [e] isoindoles as a1 adrenergic antagonists"	
		HCAPLUS Abstract 1990: 514925; "Pyrimidines. 65. Synthesis of 6-substituted thieno [2,3-d] pyrimidine-2 4(1H,3H) - diones"	
		Derwent Abstract 2000-687031/67, "New Xanthine derivatives are inhibitors of cellular processes mediated by interleukin-12 for treating inflammatory responses e.g. chronic inflammatory disease, chronic intestinal inflammation, arthritis, psoriasis and asthma (Eng)"	
		Derwent Abstract 92-415690/50, "New Pyrimidinone derivs are angiotensin II antagonists for treating hypertension, congestive heart failure, renal failure, Alzheimer's disease, amnesia, schizophrenia, etc. (Eng)"	
		Derwent Abstract 92-302020/37, "New fused pyrimidinone derivs. - are antitensin II antagonists to treat hypertension, congestive heart failure, Alzheimer's disease, amnesia, anxiety, schizophrenia, etc. (Eng)"	
		Derwent Abstract 91-254180/35, "New angiotensin-II antagonising fused thiphenes derivatives - used for treating hypertension and circulatory diseases including heart diseases and stroke"	
		Derwent Abstract 89-192246/26, "New 3-piperidinyl:alkyl-thieno: or furo pyrimidine-2,4-di:one cpds. - usefule as seratonin antagonists and alpha adrenergic blockers"	
		Derwent Abstract 2000-195023/17, "New ipiperazinyl pyrimidine dione derivatives used as selective alpha-ID adrenoceptor antagonists for treating benign prostatic hyperplasia, hypertension, detrusor instability and incontinence (Eng)"	

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				Application Number	10/619,769
				Filing Date	July 15, 2003
				First Named Inventor	William Howard Roark
				Art Unit	1614
				Examiner Name	Unknown
Sheet	15	of	19	Attorney Docket Number	PC25209A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Derwent Abstract 2001-158207/16, "New piperazinyl pyrimidine dione derivatives are selective alpha-ID adrenoceptor antagonists used for treatment of e.g. hypertension"	
		Derwent Abstract 96-362624/36, "New Bi:cyclic substd. hexa:hydro-benz-isindole derivs. - are alpha-1 adrenergic antagonists, used in treatment of benign prostatic hyperplasia (Eng)"	
		Derwent Abstract 89-008928/02, "New bi:cyclic heterocycle substd. hexa-hydro-1H-azepine-and pyrrolidine cpds., have anti-histaminic properties, for treatment of e.g. allergic rhinitis, allergic asthma, etc."	
		Derwent Abstract 88-258874/37, "New 1-alkyl substd. benzimidazole derivs. - having anti-histaminic activity and used for treating allergic diseases such as allergic asthma"	
		Derwent Abstract 91-216939/30, "New condensed heterocyclic glutemic acid dervs., - active against enzyme using folic acid and antitumour agents for treating e.g. leukemia"	
		Derwent Abstract 99-080786/07, "New thiophene-and pyrrole-based hetero-aromatic compounds - are ant(agonists of cell surface receptors, useful e.g. for inhibiting unwanted cell growth e.g. due to cancer (Eng)"	
		Derwent Abstract 97-165234/15, "New thieno-pyrimidine derivs. are endothelin antagonists - useful for treating e.g. acute renal failure, cardiac infarction, liver insufficiency, organ hypo-function and vasoconstriction (Eng)"	
		Derwent Abstract 96-384384/38, "New 2,4(1H,3H)-di:oxo-5-aminoalkyl)thieno(2,3-d)-pyrimidine derivs. - are gonadotropin-releasing hormone antagonistic agents useful in prevention and treatment of sex hormone dependent diseases (Eng)"	
		Derwent Abstract 95-382760/49, "Fused bicyclics as gonadotropin releasing hormone antagonists - used for treating hormone related cancers, benign prostatic hypertrophy, acne vulgaris, etc. (Eng)"	
		Derwent Abstract 93-299636/38, "New condensed heterocyclic oligo-glutamate derivs. - used as water soluble antitumour agent and have bood storage stability in cells"	

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		Derwent Abstract 93-078155/10, "New antitumour condensed pyrimidine derivs. - for treating chorlocarcinoma, leukemia, breast adenocarcinoma, squamous cells carcinoma, lung cancer, lympho sarcoma, etc. and also rheumatism (Eng)"	
		Derwent Abstract 92-218561/27, "Antitumoural condensed heterocyclic oligo:glutamate derivs. - for treating leukemia, squamous cell carcinoma, lymphatic sarcoma, small cell cancer of the lung etc. (Eng)"	
		Derwent Abstract 96-267825/27, "New hexa:hydro benz(e)isoindole cpds. - are useful in treatment of benign prostatic hpyerplasia (Eng)"	
		Derwent Abstract 94-248420/30, "Furano- and thieno- (3,2-c)piperidone carboxamido-acids - are fibrinogen receptor antagonists, inhibit blood platelet aggreation, used in thrombi and emboli treatment"	
		Derwent Abstract 91-075241/11, "Heterocyclic peptide derivs. useful as renin inhibitors - in the treatment of hypertension, congestive heart failure, retro-viral diseases and central nervous system disorders"	
		HCAPLUS Abstract 1996:580284: "Preparation of heterocycllyl-substituted benz[3]isoindoles as x1 adrenergic antagonists"	
		Liverton, et al, "Nonpeptide glycoprotein IIb/IIIa inhibitors: substituted quinazolinones and quinazolinones as potent fibrinogen receptor antagonists", Bioorganic & Medicinal Chemistry Letters, 1998; 8(5); pp 483-486	
		Ogawa, et al, "Studies on positive inotropic agents V", Chem Pharm Bull, 1988; 36(6); pp 2253-2258	
		Chemical Abstract CHEMCATS: AN 2001: 142935 for Order no. A1240/0056923 "Screening Collection", Zelinsky Institute of Organic Chemistry, Russia, 2000	
		Chemical Abstract CHEMCATS: AN 2001:2519212, 2001:2519208, and 2001:2519206 for Order no.s CHS 1938401, CHS 1938397, and CHS 1938395, respectively, "Chemstar Product List", Chemstar Ltd. Russia, 2001	

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		Filing Date	July 15, 2003		
		First Named Inventor	William Howard Roark		
		Art Unit	1614		
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Sheet	17	of	19	Attorney Docket Number	PC25209A

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		Chemical Abstract: CHEMCATS: AN 2001:2624610, 2001:2320591, 2002:928648, 2002:925092, 2002:926648, and 2002:927094 for Order nos. STOCKIN-22756, A1336/0060317, STOCKIS-85693, STOCKIS-77305, STOCKIS-81043, and STOCKIS-82046, respectively, "Ambinter:Exploratory Library", Ambinter, Paris, 2002	
		Chemical Abstract CHEMCATS: AN 2001:1621701, 2001:1621700, 2001:1433023, 2001:1433022, and 2001:1433020 for Order nos. Z-007159, Z-007158, C-055659, C-055658, and C-055656, respectively, "Scientific Exchange Product List", Scientific Exchange, Inc., USA, 2001	
		Chemical Abstract: Abstract No. 54:2375e for Nesterov, et al, Compound: Pyrimido '5,4-d pyrimidine-2, 4(1H, 3H)-dione, 6-(benzylthio)-, RN 00382-60-3, USA 1960	
		Chemical Abstract CAPLUS: Abstract No. 128:243870 (1998:224550) for Murata, et al, "Regioselective synthesis of 6-substituted lumazines by using highly reactive lumazine 6-triflate", Germany 1997; 17-22	
		Chemical Abstract CAPLUS: Abstract No. 128:243871 (1989:224554) for Kim, et al, "Side chain reactions of 6-acetyl-1,3,7-trimethylumazine", Germany 1997; 41-44	
		Chemical Abstract CAPLUS: Abstract No. 126:212115 (1997:100238) for Abou-Hadeed, et al, "Pteridines CVIII Reactions of 6,7-dichloro-1,2-dimethylumazine with sulfur nucleophiles", Pteridines 1996; 7(4); 113-122	
		Chemical Abstract CAPLUS: Abstract No. 107:58977 (1987:458977) for Sladowska, et al, "Synthesis and properties of amides of 1-benzyl-3-methyl-an 1-butyl-3-phenyl-7-methyl-4-oxo-2-thioxo (2,4-dioxo)-1,2,3,4-tetrahydropyrido '2,3-dipyrimidine-6-carboxylic acids", Farmaco, Ed.Sci. 1986; 41(12): 954-963	
		Chemical Abstract CAPLUS: Abstract No. 87:152121 (1977:552121) for Lespagnol, et al, "Study on antifolic agesnt. 1. Derivatives of 4-nitrobenzene-1,3-dicarboxylic acid", Bull. Soc. Pharm. Lille 1977; 33(1); 67-77	
		Chemical Abstract CAPLUS: Abstract No. 101:16805 (1984: 416805) for Ghose, et al, "A general distance-geometry three-dimensional receptor model for diverse dihydrofolate reductase inhibitors", J. Med. Chem. 1984; 27(7); 901-914	
		Reiter, et al, "Inhibition of MMP-1 and MMP-13 with phosphinic acids that exploit binding in the S2 pocket", Bioorganic & Medicinal Chemistry Letters, 1999; 9; 127-132	

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				Filing Date	July 15, 2003
				First Named Inventor	William Howard Roark
				Art Unit	1614
				Examiner Name	Unknown
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		Derwent Abstract 95-051281/07, "New benzo- and pyrido- 1,2,4-thiadiazine dioxide derivs - are angiotension II inhibitors, use in treatment of hypertension and congestive heart failure"	
		Chemical Abstracts, Vol 125, No. 13, 1996, Abstract No. 167964d; XP002198554	
		Database Crossfire Bulletin, Online, Database accession no. 786662; XP002198556	
		Shkurko, et al, Khim. Geterotsikl. Soedin, 1977; 6; pp 821-824	
		Database Crossfire Bulletin, 'Online, Database accession no. 7297869; XP002198557	
		Yamamoto, et al, "Direct Introduction of ACYL and Ethoxycarbonyl, Groups Into Pyrimidine Through the Trimethyl-Stannyl Derivatives" Heterocycles, 1995; 41(6); pp 1275-1290	
		Database Crossfire Bulletin, 'Online, Database accession no. 139954; XP002198558	
		Hunt, et al., "Pyrimidines. Part X. Pyrimidine, 4:6-Dimethylpyrimidine, and their 1-Oxides," J. Chem. Soc., 1959; pp 525-530	

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		Database Crossfire Bulletin, 'Online, Database accession no. 791572; XP002198559	
		Sakasi, et al, "Studies in Pyrimidine Derivatives. XVII. Synthesis of Pyrimidine-4-Carboxyl Heterocycles", 1979; 13; pp 235-236	
		Chemical Abstracts, Vol. 79, No. 11, Abstract No. 66394; XP002198555	
		Chemical Abstracts CA Online! CASREACT AN 105:226826 of Vinsova, J. et al, "Antituberculosics XXXVII. Preparation of the functional derivatives of 6-methyl-2-pyridinecarboxylic acid substituted in position 4 and its 1-oxides" CESH. FARM. 1985;34(10:430-436 (XP002202692)	
		Hanauske-Abel HM. et al, "Pyrroloquinoline quinone and molecules mimicking its functional domains. Modulators of connective tissue formation?" Federation of European Biochemical Studies Letters 1987, 214(2); 236-243 (XP002202687)	
		Rateb, et al, "Synthesis of heterocyclic compds. from delta-unsaturated 1,3-diketo-esters Part III. ethyl 3-cyano-6-styryl-2-pyridone-4-carboxylates and their degradation products", Journal of the Chemical Society 1960, 1430-1434 (XP002202688)	
		Chemical Abstracts: AN 61:6987c "Preparation of pyridinedicarboxaldehydes" (XP002202689)	
		Chemical Abstracts: AN 64:6607g "Compounds with potential antitubercular activity" (XP002202690)	
		Chemical Abstracts: AN 55:10440b "Solubilizing agents. V. Pyridinecarboxamides" (XP002202691)	

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